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(11) **EP 0 878 780 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
20.12.2000 Bulletin 2000/51

(51) Int. Cl.<sup>7</sup>: **G07C 9/00**, **G07F 7/10**,  
**G06K 9/00**, **G06K 9/74**

(43) Date of publication A2:  
18.11.1998 Bulletin 1998/47

(21) Application number: **98106657.4**

(22) Date of filing: **11.04.1998**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

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(30) Priority: **16.05.1997 GB 9709883**

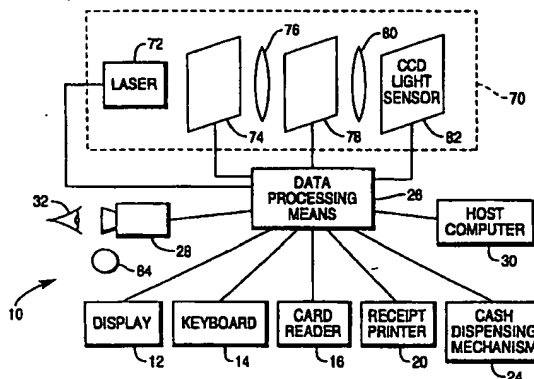
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(54) **User verification system**

(57) The invention relates to a biometric verification system for use e.g. in an ATM (10). When a user wishes to use the ATM, the system scans a biometric feature of the user such as the iris of one of his eyes (32), and produces a diffraction pattern of that feature. The diffraction pattern is compared against a reference matched spatial filter in a Vander Lugt optical correlator (70). If the diffraction pattern and the matched spatial filter match then a correlation dot is produced, and the user is authorized to use the ATM (10).

For a user to be able to use ATMs that comprise this verification system, he has first to use a recording system that produces the reference matched spatial filter of the biometric feature.

**FIG. 3**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 98 10 6657

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<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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